

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P170569

Luminaire Tested: **LDA4A13927D010TE LAR35FL 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26146)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A13927D010TE LAR35FL 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1112.4 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

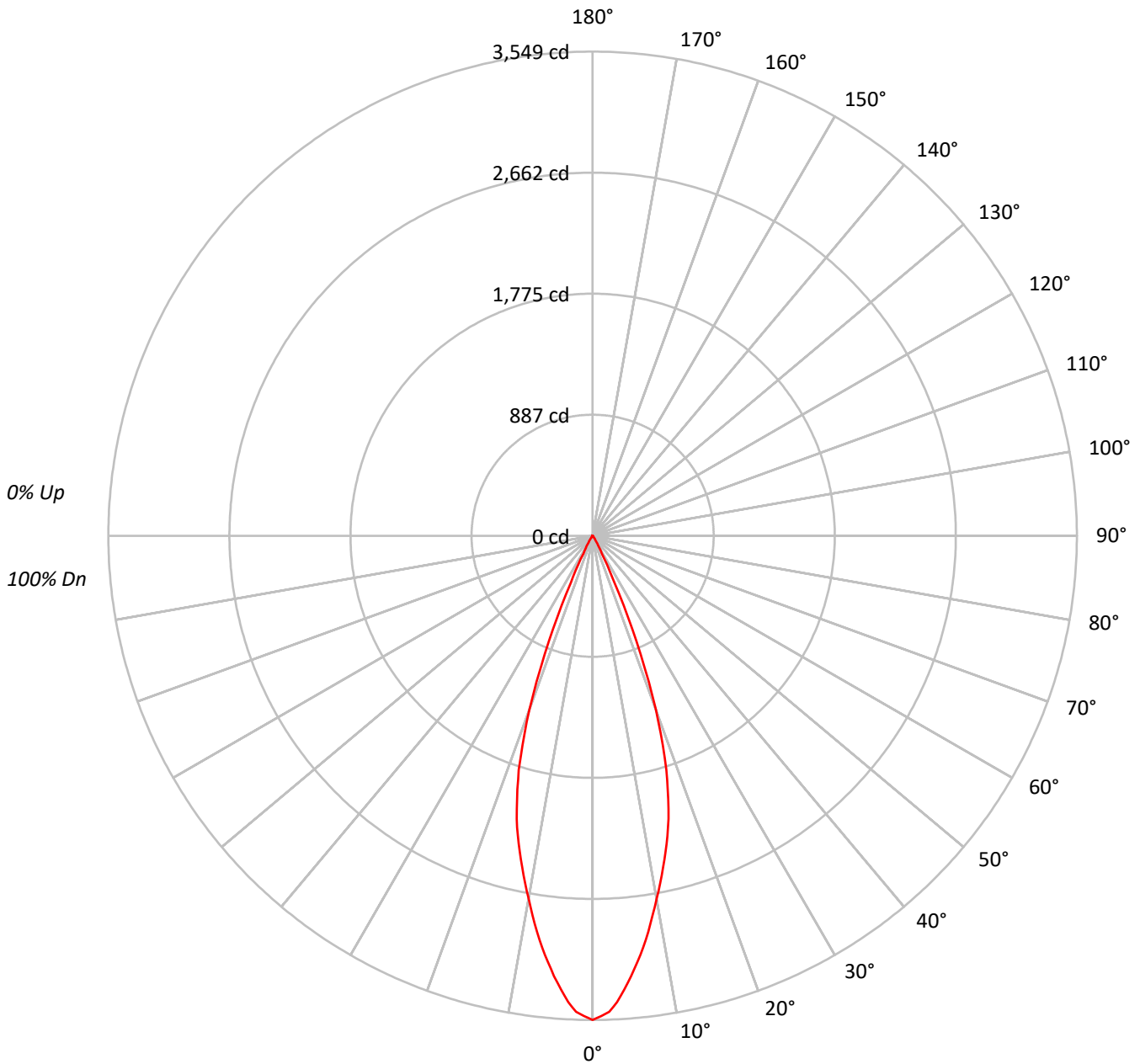
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170569

CATALOG NUMBER: LDA4A13927D010TE LAR35FL 4LAL1

Luminous Intensity Polar Plot





TEST NUMBER: P170569

CATALOG NUMBER: LDA4A13927D010TE LAR35FL 4LAL1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96			96																
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	96	94			93																	
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91			90																	
4	104	98	94	91	102	97	93	91	95	92	90	93	91	89	92	89	88			86																	
5	101	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85			83																	
6	97	91	87	83	96	90	86	83	89	85	83	88	85	82	86	84	82			81																	
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79			78																	
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76			75																	
9	89	82	78	75	88	82	77	75	81	77	74	80	77	74	79	76	74			73																	
10	86	79	75	72	86	79	75	72	78	75	72	78	74	72	77	74	72			71																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	437778
5°	401290
10°	338446
15°	274433
20°	177715
25°	51240
30°	11195
35°	3177
40°	1192
45°	488
50°	211
55°	129
60°	148
65°	175
70°	216
75°	0
80°	0
85°	0



TEST NUMBER: P170569

CATALOG NUMBER: LDA4A13927D010TE LAR35FL 4LAL1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	26.3
10°-20°	576.6	51.8
20°-30°	222.1	20.0
30°-40°	17.6	1.6
40°-50°	2.5	0.2
50°-60°	0.6	0.1
60°-70°	0.6	0.1
70°-80°	0.2	0.0
80°-90°	0.3	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1090.7	98.1
0°-40°	1108.3	99.6
0°-60°	1111.4	99.9
0°-90°	1112.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1112.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3549	
5°	3241	292
15°	2149	577
25°	376	222
35°	21	18
45°	3	3
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170569

CATALOG NUMBER: LDA4A13927D010TE LAR35FL 4LAL1

CANDELA DISTRIBUTION (FULL):

	0°
0°	3549.2
1°	3520.7
2°	3491.7
3°	3423.3
4°	3333.3
5°	3241.0
6°	3139.6
7°	3041.1
8°	2932.3
9°	2814.4
10°	2702.2
11°	2595.1
12°	2483.5
13°	2376.9
14°	2268.1
15°	2149.1
17.5°	1799.4
20°	1353.9
22.5°	836.7
25°	376.5
27.5°	144.7
30°	78.6
32.5°	40.4
35°	21.1
37.5°	12.5
40°	7.4
42.5°	4.6
45°	2.8
47.5°	1.7
50°	1.1
52.5°	0.6
55°	0.6
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.6
70°	0.6
72.5°	0.0
75°	0.0
77.5°	0.6
80°	0.0
82.5°	0.0



TEST NUMBER: P170569

CATALOG NUMBER: LDA4A13927D010TE LAR35FL 4LAL1

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.6



(END OF REPORT)